

SEQUENCE LISTING

<110> AHUJA, SUNIL
GONZALEZ, ENRIQUE
MUMMIDI, SRINIVAS
DOLAN, MATTHEW
BAMSHAD, MIKE

<120> SCREENING FOR DISEASE SUSCEPTIBILITY BY GENOTYPING THE CCR5 AND CCR2
GENES

<130> 4003.001600

<140> UNKNOWN

<141> 2002-03-29

<150> PCT/US00/28158

<151> 2000-10-12

<150> 60/159,137

<151> 1999-10-12

<160> 72

<170> PatentIn version 3.0

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<220>
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<220>
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<400> 7
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$\langle 220 \rangle$

<223> Synthetic oligonucleotide

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ggttaatgtg aagtccagga tcc

23

<210> 9

<211> 44

<212> DNA

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic oligonucleotide

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44

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<223> Synthetic oligonucleotide

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59

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<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic oligonucleotide

<400> 11

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54

<210> 13

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<220>
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<400> 13
 gttgggttaa gttggctt 18

<210> 14
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<220>
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<400> 14
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<400> 15
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<400> 17
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<400> 18
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<220>
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<400> 19
 tcacaagccc acagatatct cctg 24

<210> 20
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 <212> DNA
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<220>
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<400> 20
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<210> 21
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<220>
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<400> 21
 catcccacta cacagaatct gttag 25

<210> 22
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<220>
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<400> 22
cccgtgagcc catagttaaa actc 24

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<400> 23
tcacagggct tttcaacagt aagg 24

<210> 24
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<400> 24
agatgaatgt aaatggttctt ctag 24

<210> 25
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<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 25
ctttttaagt tgagcttaaa ataagc 26

<210> 26
<211> 30
<212> DNA
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<220>
<223> Synthetic oligonucleotide

<400> 26
cgcacctctg gtctgaaggt ttatggtgcg 30

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Figure 6 The effect of the number of iterations on the accuracy of the proposed algorithm.

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32

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<220>
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<220>
<223> Synthetic oligonucleotide

31

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<220>
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31

<210> 32

<211> 51
 <212> DNA
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<220>
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<400> 32
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<210> 33
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<220>
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<400> 33
 tcaactgacc acgaaagt 18

<210> 34
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<400> 34
 gagccaaggt cacggaagcc c 21

<210> 35
 <211> 18
 <212> DNA
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<220>
 <223> Synthetic oligonucleotide

<400> 35
 cctgggtcct agaatacac 18

<210> 36
 <211> 58
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<220>
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<400> 37
ctattaacat actcgtgaac cac 23

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<400> 38
gttggttttaa gttggctt 18
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<220>
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<400> 39
tagaattttct aatataaaat tctattaaca tactcgtgaa ccacaaacgg tcta 54

<220>
<223> Synthetic oligonucleotide

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<400> 40
caaaaagaag gtcttcatta cacc
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<220>
<223> Synthetic oligonucleotide

<400> 41
agtgttcggg tgtctataaa ggac 24

<210> 42
<211> 21
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<213> Artificial Sequence

<220>
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<400> 42
tggcgacacg tagcagctta g 21

<210> 43
<211> 21
<212> DNA
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<220>
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<400> 43
ttcctggtgc cgagactagt c 21

<210> 44
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<400> 44
gcggccgctt atgcacaggg tggaacaag 29

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<223> Synthetic oligonucleotide

<400> 45
tctagaccac ttgagtcctgt gtca 24

<210> 46
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<213> Artificial Sequence

<211> 24
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<400> 51
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<400> 52
 aataacttgag attttcagat g 21

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<400> 53
 agattggact tgacacttga taatccat 28

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<210> 55
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<400> 55
 gtttccgttt acagagaaca ataatttg 29

<400> 56
gttcatgtgt atggggagtg ggatagg

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<210> 57
<211> 30
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<213> Artificial Sequence
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<400> 57
gcatctgtgt ggggggttggg gtgggatagg
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<210> 58
<211> 24
<212> DNA
<213> Artificial Sequence
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<220>
<221> misc_feature
<222> (14)..(14)
<223> WHEREIN R = G OR A

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<400> 58
atctggagtg aagratcctg ccac

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<212>	DNA
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<220>
<223> Synthetic oligonucleotide

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<220>
<221> misc_feature
<222> (17)..(17)
<223> WHEREIN Y = T OR C

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<400> 59
ggaaacccat agaagayatt tggcaaacac

30

<210> 60
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
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<222> (16)..(16)
<223> WHEREIN K = G OR T

<400> 60
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31

<210> 61
<211> 31
<212> DNA
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<222> (16)..(16)
<223> WHEREIN R = G OR A

<400> 61
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31

<210> 62
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<212> DNA
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<220>
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<220>
<221> misc_feature
<222> (16)..(19)
<223> WHEREIN Y = T OR C

<400> 62
agcccgtaaa taaacyttya gaccagagat ctat

34

<210> 63
 <211> 31
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<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> WHEREIN R = G OR A

<400> 63
 aagctcaact taaaargaag aactgttctc t

31

<210> 64
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 <212> DNA
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<220>
 <223> Synthetic oligonucleotide

<400> 64
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 ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcccg tgagcccata 180
 gttaaaaactc tttagacaac aggttggttc cgtttacaga gaacaataat attgggtggt 240
 gagcatctgt gtggggggtg ggggtgggata ggggatacgg ggagagtgga gaaaaagggg 300
 gcacaggggtt aatgtgaagt ccaggatccc cctctacatt taaagttggt ttaagttggc 360
 tttaattaat agcaactctt aagataatca gaattttctt aaccttttag ccttactgtt 420
 gaaaagccct gtgatcttgt acaaatcatt ggcttcttg atagtaattt cttttactaa 480
 aatgtgggct tttgactaga tgaatgtaaa tgttcttcta gctctgatat cctttattct 540
 ttatatcttc taacggattc tgtgtagagg gatgagcaga gaacaaaaac aaaataatcc 600
 agtgagaaaa gcccataaat aaactttcag accagagatc tattctctag cttattttta 660
 gctcaactta aaaagaagaa ctgttctctg attctttttg ccttcgatac acttaatgat 720
 ttaactccac cctccttcaa aagaaacagc atttctact tttatactgt ctatatgatt 780
 gacttgacac gctcatctgg ccagaagagc tgagacatcc gttcccctac aagaaactct 840

[illegible]

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ccccgtaag taacctctca gccgcttggc ctgttagtta gcttctgaga tgagtaaaag      900
actttacagg aaacccatag aagac                                           925

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ccactaagat	cctgggtcca	gaaaaagatg	ggaaacctgt	ttagctcacc	cgtgagccca		180
tagttaaacc	tctttagaca	acaggttggt	tccgtttaca	gagaacaata	atattgggtg		240
gtgagcatct	gtgtgggggt	tggggtggga	taggggatac	ggggagagtg	gagaaaaagg		300
gggcacaggg	ttaatgtgaa	gtccaggatc	cccctctaca	tttaaagttg	gtttaagttg		360
gctttaatta	atagcaactc	ttaagataat	cagaattttc	ttaacctttt	agccttactg		420
ttgaaaagcc	ctgtgatctt	gtacaaatca	tttgccttct	ggatagtaat	ttcttttact		480
aaaatgtggg	cttttgacta	gatgaatgta	aatgtttctc	tagctctgat	atcctttatt		540
ctttatatatt	tctaacagat	tctgtgtagt	gggatgagca	gagaacaaaa	acaaaataat		600
ccagtgagaa	aagcccgtaa	ataaactttc	agaccagaga	tctattctct	agcttatttt		660
aagctcaact	taaaaagaag	aactgttctc	tgattctttt	cgccttcaat	acacttaatg		720
atttaactcc	accctccttc	aaaagaaaca	gcatttccta	cttttatact	gtctatatga		780
ttgatttgca	cagctcatct	ggccagaaga	gctgagacat	ccgttcccct	acaagaaact		840
ctccccggta	agtaacctct	cagctgcttg	gcctgttagt	tagcttctga	gatgagtaaa		900
agactttaca	ggaaacccat	agaagac					927

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<212> DNA
<213> Artificial Sequence
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<220>
<223> Synthetic oligonucleotide

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<220>
<221> misc feature
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<222> (374) .. (374)
<223> WHEREIN S = C OR G

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<220>
<221> misc_feature
<222> (385)..(922)
<223> WHEREIN R = A OR G
```

```
<220>
<221> misc_feature
<222> (546)..(546)
<223> WHEREIN Y = C OR T
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<400>	66						
cttcagatag	attatatctg	gagtgaagaa	tccctgccacc	tatgtatctg	gcatagtgtg		60
agtcctcata	aatgcttact	ggtttgaagg	gcaacaaaat	agtgaacaga	gtgaaaatcc		120
ccactaagat	cctgggtcca	gaaaaagatg	ggaaacctgt	ttagctcacc	cgtgagccca		180
tagttaaaac	tctttagaca	acaggttgtt	tccgtttaca	gagaacaata	atattgggtg		240
gtgagcatct	gtgtgggggt	tggggtggga	taggggatac	ggggagagtg	gagaaaaagg		300
gggcacaggg	ttaatgtgaa	gtccaggatc	cccctctaca	tttaaagttg	gtttaagttg		360
gctttaatta	atascaactc	ttaarataat	cagaattttc	ttaacctttt	agccttactg		420
ttgaaaagcc	ctgtgatctt	gtacaaatca	tttgcttctt	ggatagtaat	ttcttttact		480
aaaatgtggg	cttttgacta	gatgaatgta	aatgttcttc	tagctctgat	atcctttatt		540
ctttayattt	tctaacagat	tctgtgtagt	gggatgagca	gagaacaaaa	acaaaataat		600
ccagtggaaa	aagcccgtaa	ataaactttc	agaccagaga	tctattctct	agcttatttt		660
aagctcaact	taaaaagaag	aactgttctc	tgattctttt	cgccttcaat	acacttaatg		720
atttaactcc	accctccttc	aaaagaaaaca	gcatttccta	ctttttatact	gtctatatga		780
ttgatttgca	cagctcatct	ggccagaaga	gctgagacat	cogttcccct	acaagaaact		840
ctccccggta	agtaacctct	cagctgcttg	gcctgttagt	tagcttctga	gatgagtaaa		900
agacttttaca	ggaaacccat	araagac					927

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<212> DNA
<213> Artificial Sequence
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<220>
<223> Synthetic oligonucleotide

```

<400> 67
cttcagatag attatatctg gagtgaagaa tcctgccacc tatgtatctg gcatagtgtg      60
agtcctcata aatgcttact ggtttgaagg gcaacaaaat agtgaacaga gtgaaaatcc      120
ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcacc cgtgagccca      180
tagttaaacc tctttagaca acagggtttt tccgtttaca gagaacaata atattgggtg      240
gtgagcatct gtgtgggggt tggggtgga taggggatac ggggagagtg gagaaaaagg      300
gggcacaggg ttaatgtgaa gtccaggatc cccctctaca tttaaagttg gtttaagttg      360
gctttaatta atagcaactc ttaagataat cagaattttc ttaacctttt agccttactg      420
ttgaaaagcc ctgtgatctt gtacaaatca tttgcttctt ggatagtaat ttcttttact      480
aaaatgtggg cttttgacta gatgaatgta aatgttcttc tagctctgat atcctttatt      540
ctttatattt tctaacagat tctgtgtagt gggatgagca gagaacaaaa acaaaataat      600
ccagtgagaa aagcccgtaa ataaactttc agaccagaga tctattctct agcttatttt      660
aagctcaact taaaaagaag aactgttctc tgattctttt cgccttcaat acacttaatg      720
atttaactcc accctccttc aaaagaaaca gcatttcta cttttatact gtctatatga      780
ttgatttgca cagctcatct ggccagaaga gctgagacat ccgttcccct acaagaaact      840
ctccccggta agtaacctct cagctgcttg gcctgtagt tagcttctga gatgagtaaa      900
agactttaca ggaaacccat agaagac                                          927

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<210> 68
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<213> Artificial Sequence

<220>
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<220>
<221> misc_feature
<222> (239)..(756)
<223> WHEREIN Y = C OR T

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<400> 68
cttcagatag attatatctg gagtgaagaa tcctgccacc tatgtatctg gcatagtgtg      60
agtcctcata aatgcttact ggtttgaagg gcaacaaaat agtgaacaga gtgaaaatcc      120
ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcacc cgtgagccca      180
tagttaaacc tctttagaca acagggtttt tccgtttaca gagaacaata atattgggyg      240

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gtgagcatct gtgtgggggt tggggtggga taggggatac ggggagagtg gagaaaaagg 300
 gggcacaggg ttaatgtgaa gtccaggatc cccctctaca tttaaagttg gtttaagttg 360
 gctttaatta atagcaactc ttaagataat cagaattttc ttaacctttt agccttactg 420
 ttgaaaagcc ctgtgatctt gtacaaatca tttgcttctt ggatagtaat ttcttttact 480
 aaaatgtggg cttttgacta gatgaatgta aatgtttctt tagctctgat atcctttatt 540
 ctttatattt tctaacagat tctgtgtagt gggatgagca gagaacaaaa acaaaataat 600
 ccagtggaaa aagcccgtaa ataaactttc agaccagaga tctattctct agcttatttt 660
 aagctcaact taaaaggaag aactgttctc tgattctttt cgccttcaat acacttaatg 720
 atttaactcc accctccttc aaaagaaaca gcattyccta cttttatact gtctatatga 780
 ttgatttgca cagctcatct ggccagaaga gctgagacat ccgttcccct acaagaaact 840
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 agactttaca ggaaacccat agaagac 927

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<220>
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<220>
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 <223> WHEREIN Y = C OR T

<400> 69
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 agtcctcata aatgcttact ggtttgaagg gcaacaaaat agtgaacaga gtgaaaatcc 120
 ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcacc cgtgagccca 180
 tagttaaaac tctttagaca acagggttttt tccgtttaca gagaacaata atattgggtg 240
 gtgagcatct gtgtgggggt tggggtggga taggggatac ggggagagtg gagaaaaagg 300
 gggcacaggg ttaatgtgaa gtccaggatc cccctctaca tttaaagttg gtttaagttg 360
 gctttaatta atagcaactc ytaagataat cagaattttc ttaacctttt agccttactg 420
 ttgaaaagcc ctgtgatctt gtacaaatca tttgcttctt ggatagtaat ttcttttact 480

aaaaatgtggg	cttttgacta	gatgaatgta	aatgtttcttc	tagytctgat	atcctttatt	540
ctttatatatt	tctaacagat	tctgtgtagt	gggatgagca	gagaacaaaa	acaaaataat	600
ccagtggagaa	aagcccgtaa	ataaactttt	agaccagaga	tctattctct	agcttatttt	660
aagctcaact	taaaaagaag	aactgttctc	tgattctttt	cgccttcaat	acacttaatg	720
atttaactcc	accctccttc	aaaagaaaaca	gcatttccta	ctttttatact	gtctatatga	780
ttgatttgca	cagctcatct	ggccagaaga	gctgagacat	cogttcccct	acaagaaact	840
ctccccggta	agtaacctct	cagctgcttg	gcctgttagt	tagcttctga	gatgagtaaa	900
agactttaca	qgaaacccat	agaagac				927

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<212> DNA
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<220>
<223> Synthetic oligonucleotide

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<220>
<221> misc_feature
<222> (177)..(494)
<223> WHEREIN Y = C OR T
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<400>	70						
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<220>
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<220>
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 <222> (209)..(880)
 <223> WHEREIN Y = C OR T

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